

# **Using the Palm OS PDA**

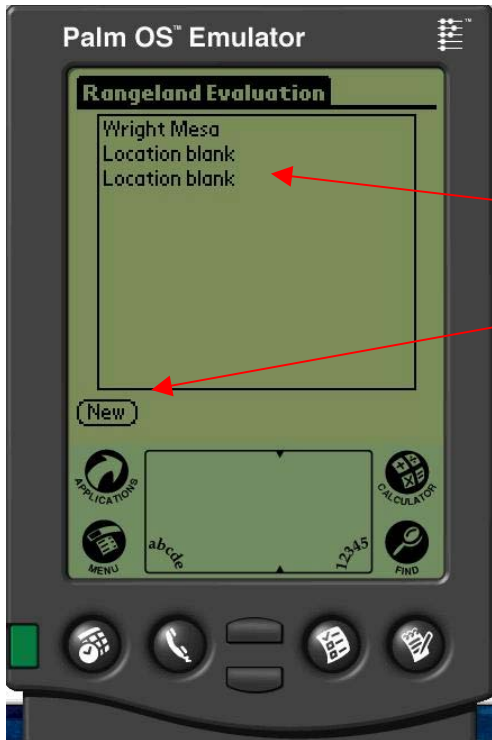
**For**

## **Rangeland Management** *Rangeland Health Evaluation* *And* *Ecological Reference Area*

**See Technical Reference 1734-6**  
**2000**  
**for instructions on using**  
**these Procedures.**

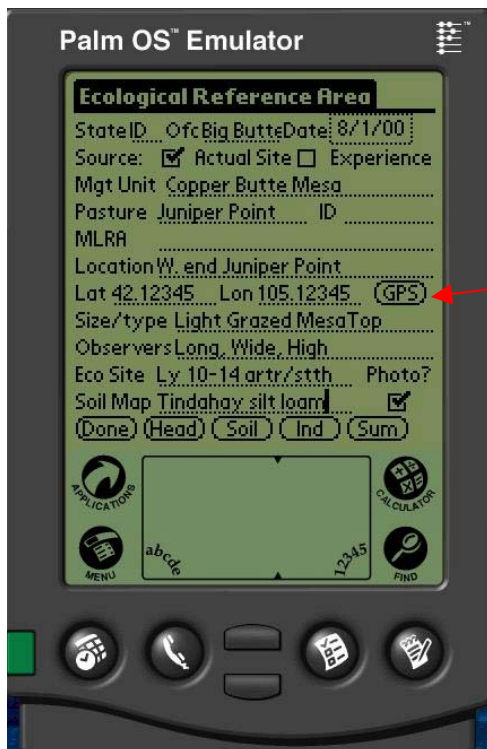
U.S. Department of the Interior  
Bureau of Land Management  
Service Center  
P.O. Box 25047  
Denver, CO 80225-0047

## Rangeland Health Evaluation and Ecological Reference Area

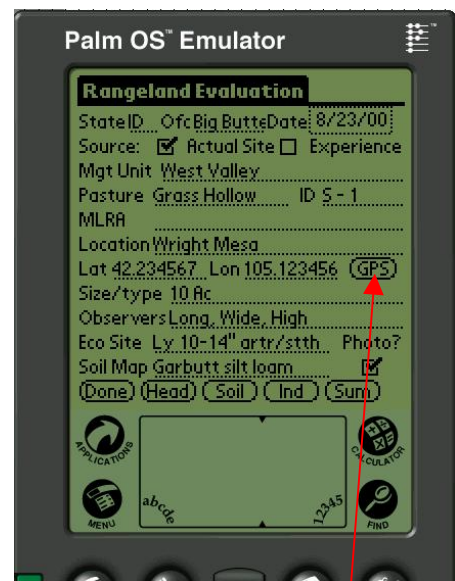


The Rangeland Health Evaluation worksheet, and the Ecological Reference Area worksheet for the Palm PDA are similar. Following are instructions for using both.

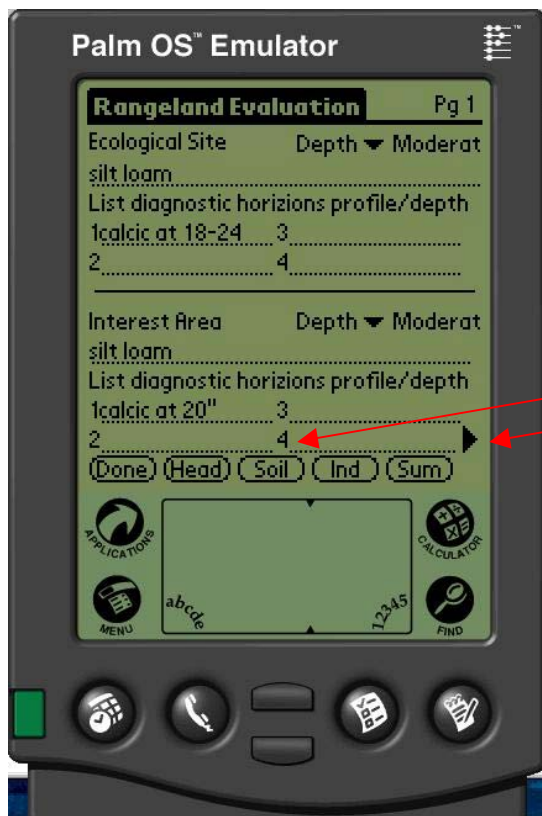
When the program is opened, a list of records will appear. A new record can be created by touching New.



The heading screens for both programs are identical. If a GPS unit is attached, the Lat Lon coordinates will automatically be entered when the GPS button is touched.



## Rangeland Health Evaluation and Ecological Reference Area



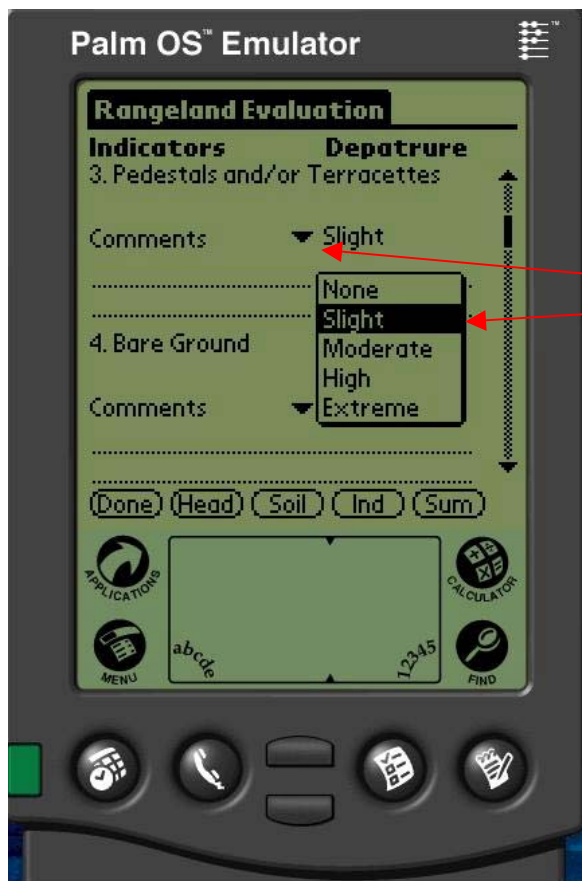
Touching the Soil button allows entry of Soil/Site Verification Data. On both the Range Health and Ecological Reference programs, there are two pages to enter soil data. Move between pages by touching the arrow

Soil depth is selected from a drop down list by touching the arrow.

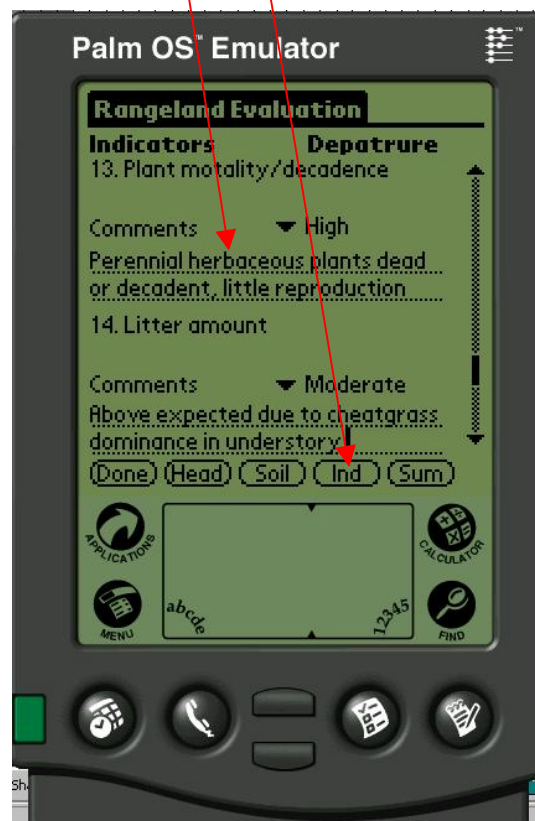
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## Rangeland Health Evaluation and Ecological Reference Area



The Indicator Ratings are entered on the screen which is activated by touching the Ind button. The "Departure from Ecological Site Description/Ecological Reference Area(s)" are entered from a drop down pick list activated by touching the arrow. Narrative is entered using the space provided with the graffiti or a portable keyboard.



## Rangeland Health Evaluation and Ecological Reference Area

**Palm OS™ Emulator**

**Rangeland Evaluation**

Soil/Site stability Attr: ▼ Slight

Extr	High	Mod	Slight	None	Sum
.....	.....	3...	3...	3...	9...

Biotic Integrity Attr: ▼ Moderate

Extr	High	Mod	Slight	None	Sum
.....	2...	7...	.....	.....	9...

Hydrologic Func Attr: ▼ Slight

Extr	High	Mod	Slight	None	Sum
.....	.....	4...	5...	2...	11

(Done) (Head) (Soil) (Ind) (Sum)

APPLICATIONS MENU FIND

The Rangeland Health program calculates the indicator summary fields based on what was entered on the indicator rating screen.

The user must choose the attribute summary using the drop down pick list by touching the arrow. These screens are activated by touching the Sum button.

The ecological reference program has no calculated fields. Choose the degree of agreement using the dropdown pick lists.

Touch the box to place a checkmark in the box. Touch the box again to remove the checkmark.

Narrative describing limitations is entered here using graffiti or the keyboard.

**Palm OS™ Emulator**

**Ecological Reference Area**

Ecological Site Description ▼ Good

Soil Series Description ▼ Good

Other source/knowledge ▼ Good

Can function as Ecological Reference Area with no limitations (check) ☒

Or the following limitations

Some cheatgrass old erosion site useful as ERA for ly 10-14

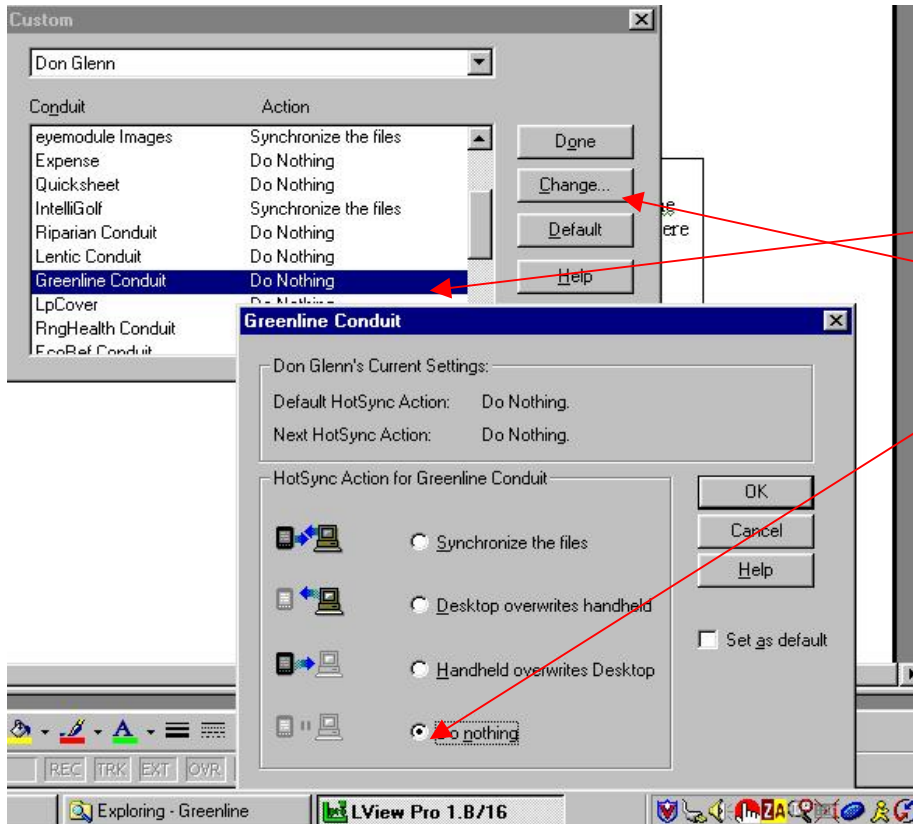
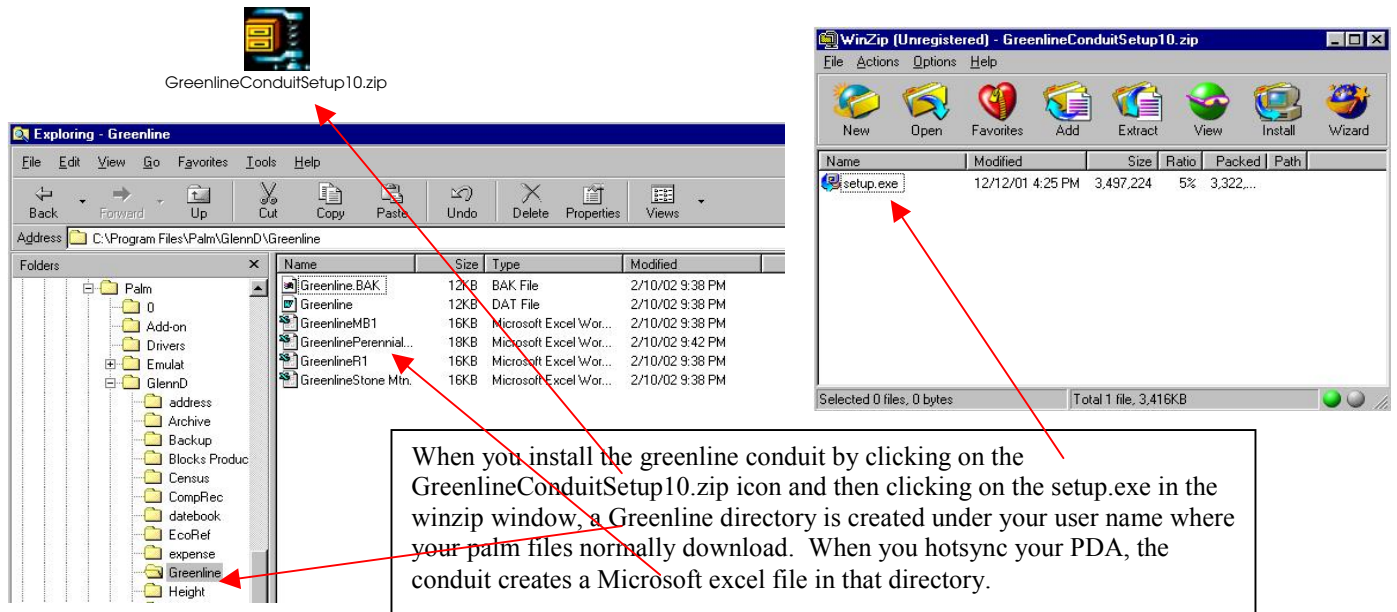
(Done) (Head) (Soil) (Ind) (Sum)

APPLICATIONS MENU FIND



## Rangeland Health Evaluation and Ecological Reference Area

The Rangeland Health/Ecological Reference setup and download procedures are the same as those described below for the greenline program, except that the excel file will be created in either a RangeHealth or an EcoRef Directory. And the setup Icon will be entitled RangeHealthConduitSetup.zip or EcoRefCounduitSetup.zip.



You can turn the conduit on and off by right clicking on the hotsync icon and selecting custom. Then highlight the Greenline Conduit and click change. If the conduit is set to do nothing, the excel file will not be created, however the data will be backed up in the backup directory.

# Rangeland Health Evaluation and Ecological Reference Area

The following is a copy of the  
RngHealthWright Mesa.xls file downloaded from the PDA.

## RANGELAND HEALTH EVALUATION SUMMARY WORKSHEET

### PART 1. Area of Interest Documentation

STATE	ID	OFFICE	Big Butte	MANAGEMENT AREA	West Valley
PASTURE/WATERSHED			Grass hollow	ID# S-1	MLRA
LOCATION	Wright Mesa				
LEGAL	41.99922	104.2346			
SIZE OF EVALUATION AREA	10 Acres		PHOTOS TAKEN	Y	
OBSERVERS	Glenn		DATE	8/29/00	
ECOLOGICAL SITE	Ly 10-14" artr/stth		SOIL MAP UNIT	Garbutt silt loam	

### SOIL/SITE VERIFICATION

Rangeland Ecological Site Description and/or soil survey	Area of Interest Determination
Surface Texture	Silt Loam
Depth:	Moderate (20-40)
List diagnostic horizons in profile and depth	List diagnostic horizons in profile and depth
Calcic at 18-24	Calcic at 20"

Parent Material	Slope	4 Elevation	3200 Topographical Position Plains	Aspect SE
Avg Annual Precip	12 Recent weather (last 2 years)	Drought		
Describe wildlife and livestock use and recent disturbances				
Spring Sheep (May)				

Describe offsite influences on area of interest

Culverts affect a small area. Not significant.

### Ecological Reference Area(s)

Attribute	Indicators	Extreme	Moderate/Extreme	Moderate	Slight to Moderate	None to Slight
S,H	1. Rills					X
Comments:						
S,H	2. Water Flow Patterns				X	
Comments:	Few mostly old					
S,H	3. Pedistals and/or Terracettes				X	
Comments:						
S,H	4. Bare Ground				X	
Comments:	Slightly higher than expected due to loss of bio crust.					
S,H	5. Gullies					X
Comments:						
S	6. Wind-Scoured, Blowouts, and/or Deposition Areas					X

## Rangeland Health Evaluation and Ecological Reference Area

Comments:	No wind erosion		
H	7. Litter Movement		X
Comments:			
S,H,B	8. Soil Surface Resistance to Erosion	X	
Comments:	Interspaces are showing loss of stability		
S,H,B	9. Soil Surface Loss or Degradation	X	
Comments:	Signs of past losses, minimal signs of current losses.		
H	10. Plant Community Composition		X
	Distribution Relative to Infiltration and Runoff		
Comments:	Less ARTR than expected resulting in less snow capture, therefore less soil water recharge		
S,H,B	11. Compaction Layer	X	
Comments:	Compaction layer common in shrub interspaces		
B	12. Functional/Structural Groups	X	
Comments:	Cheatgrass dominant understory, native herbaceous spp. considerably reduced		
B	13. Plant Mortality/Decadence	X	
Comments:	Native perennials dead or decadent, little reproduction due to cheatgrass competition		
H,B	14. Litter Amount	X	
Comments:	Above expected due to cheatgrass dominance in understory.		
B	15. Annual Production	X	
Comments:	Cheatgrass production is poor due to dry spring		
B	16. Invasive Plants	X	
Comments:	Cheatgrass dominant with rush skeletonweed and halogeton locally common.		
B	17. Reproductive Capability of Perennial Plants	X	
Comments:	Perennials except sagebrush have very few seedheads. Western wheat has moderate rhizome.		
Part 3. Summary		Departure from Ecological Site Description/ Ecological Reference Area(s)	
A. Indicator Summary			

	Rangeland Health Attributes	Extreme	Moderate/ Extreme	Moderate	Slight to Moderate	None to Slight	Sum
S	Soil/Site Stability (Indicators 1-6, 8, 9 & 11)	0	0	3	3	3	9
H	Hydrologic Function (Indicators 1-5, 7-11 & 14)	0	0	4	5	2	11
B	Biotic Integrity (Indicators 8-9, 11-17)	0	2	7	0	0	9

B. Attribute Summary - Check the category that best fits the 'preponderance of evidence' for each of the three attributes relative to the distribution of indicator ratings in the preceding Indicator Summary table

Attribute	Extreme	Moderate/ Extreme	Moderate	Slight to Moderate	None to Slight
Soil/Site Stability				X	
Hydrologic Function			X		
Biotic Integrity				X	



## Rangeland Health Evaluation and Ecological Reference Area

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